Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Predicting Products of Chemical Reactions Practice Problems**

|  |  |
| --- | --- |
| Synthesis (A + B 🡪 AB) | |
| 1. Ga + F2 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Zn+2 + O2 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Cu+2 + Cl2 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Ag+1 + S 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Na + I2 🡪\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Al + O2 🡪\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Decomposition (AB 🡪 A + B) | |
| 1. K2CO3 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ 2. Ag2O 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ | 1. H3N 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ 2. MgCl2 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ |
| Double Replacement: AB + CD 🡪 AD + CB | |

NaI + CaCl2 🡪 \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_

KCl + MgO 🡪 \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_

BaS + BeCl2 🡪 \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_

NaBr + CaF2 🡪 \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_

KOH + CaSO4 🡪 \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_

AgNO3 + ZnCl 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_

RbClO3 + CsNO3 🡪 \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_

NaCN + Li2CO3 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_

Na2O + MgS 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

CuF + BeO 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

KF + Pb3N4 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

AlBr3 + H2S 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

CaO + HI 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

PbCl4 + HgO 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

BaCl2 + H3N 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

CuBr + Li2O 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

Ga2O3 + FeP 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_

FeI3 + Rb3N 🡪 \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_